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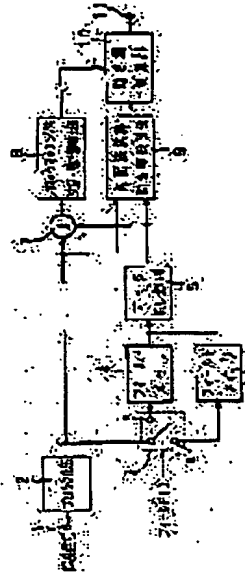
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(54) MOTION QUANTITY DETECTOR AND MOTION QUANTITY DETECTION METHOD**(57)Abstract:**

PURPOSE: To improve the accuracy of a motion quantity from accuracy of a motion quantity detected by using only the block matching method.

CONSTITUTION: An adder 7 takes difference between picture data of one block in a field subject to block processing and picture data of a block in a search area in a field memory 4 or 5 storing picture data of a field different timewise from the field segmented sequentially by a data segmentation section 6 and the result is fed to a block matching method arithmetic operation motion quantity detection section 8. The detection section 8 calculates an optimum evaluation value to detect a motion quantity in the unit of picture elements and gives it to a motion quantity detection section 10. Moreover, the picture data of one block from the block processing section 2 and picture data of a block whose optimum value is calculated from the data segmentation section 6 are fed to a gradient method arithmetic operation motion detection section 9, in which the motion quantity in the unit of picture elements or below is detected and the result is fed to a motion quantity detection section 10, in which a final motion quantity is calculated.

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